

Lab Tour

Industrial Focus Group

XUV Optics

10 Nov 2016

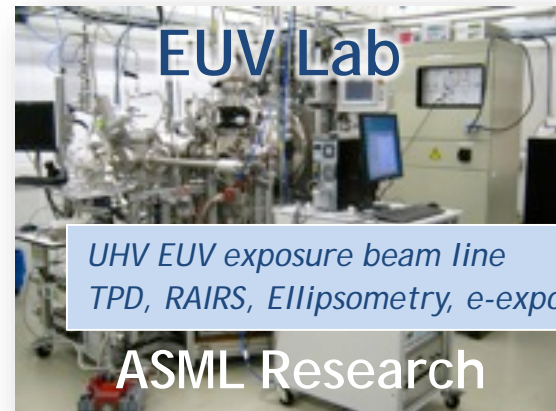
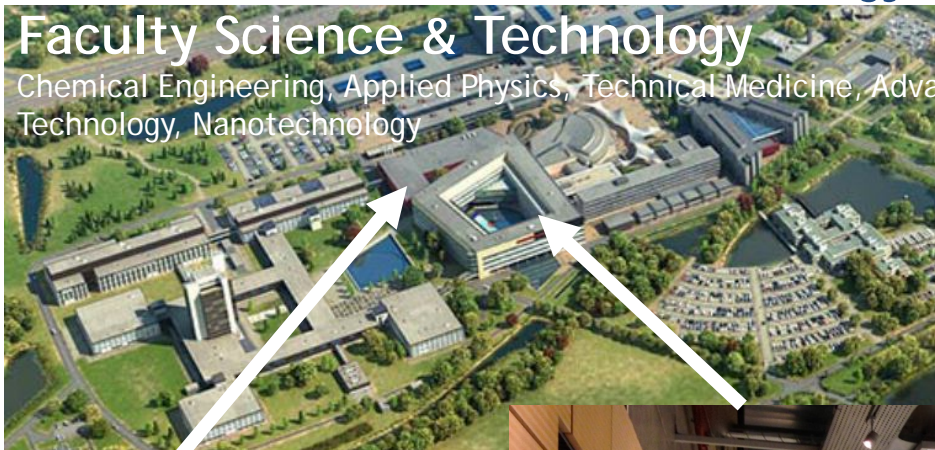
XUV Optics group

MESA+ Institute for Nanotechnology,
University of Twente

Facilities XUV

MESA+ Institute for Nanotechnology Faculty Science & Technology

Chemical Engineering, Applied Physics, Technical Medicine, Advanced Technology, Nanotechnology



EUV Lab

UHV EUV exposure beam line
TPD, RAIRS, Ellipsometry, e-exposure

ASML Research

NanoLab

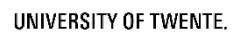
1250 m² cleanroom
materials analysis lab
chemical synthesis
materials research
EB/NIL/LIL lithography



XUV Optics Lab

500 m² thin film & multilayer facilities
physical/chemical synthesis and analysis
advanced deposition set-ups

3 deposition set-ups (AG/A, ADC, 1600)
8 analysis set-ups (XRR, XRD, LEIS, XPS, AFM, WLI, SE, OM)
2 clean hatches





► 2 labs: deposition (right side) & metrology (left side)

AGA: Atomic Growth & Analysis



- *Deposition of single & bi-layers*
- *In vacuum transport to XPS and LEIS analysis*

ADC: Advanced development coater



- 4 magnetrons + 6 e-beam evaporators
- Kaufman gun

MS1600



- *6 magnetrons*
- *Ion gun*

Metrology lab



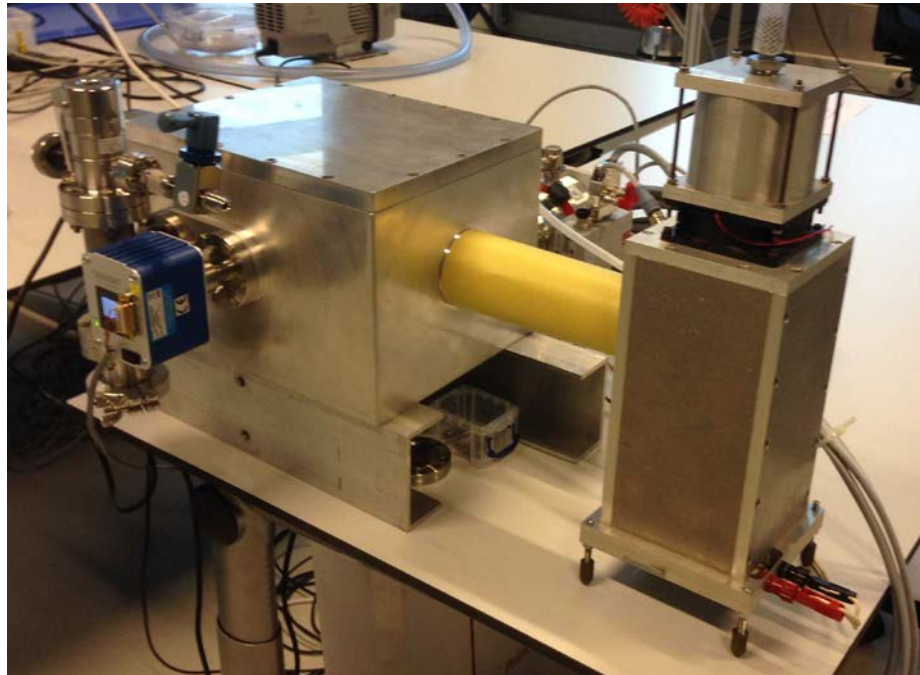
Analysis tools



Analysis tools



Analysis tools



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